

Proposals List in order of guesstimated costs-- high to low

- A. Stormwater Mitigation
 - 1. Watershed Projects J1 & J2
 - 2. Watershed Projects E1, E2 & possibly E3
 - 3. Joint Project with Ardentown
- B. BWVC Sewer Improvements
- C. Village-wide high-speed Wi-Fi for all households, community buildings and open spaces
- D. Playground Climbers
 - 1. Replacement Climber for the Sherwood Green
 - 2. New Climber for 2–6-year-olds on the Arden Green
- E. Arden Pool Repairs/Improvements
- F. New Outdoor Pavilion Communal Space with Arden Club
- G. Craft Shop Museum Website for better access to our collection
- H. New ADA Woods Access in Sherwood Forest
- I. Wages for Zoom session staffing

ARPA Proposal Details**A. Stormwater Mitigation**

The Village of Arden has partnered with ForeSite Associates to use DNREC Surface Water Matching Planning Grant funds to develop a Stormwater Master Plan (SMP), which is currently being finalized for presentation to the Town Assembly. The purpose of this plan is to identify areas within the Village of Arden for implementation of Best Management Practices (BMPs) that reduce the impact of stormwater run-off to the waterways and natural lands that border the village. A major goal of the master plan is not only to identify BMPs that can be implemented on public lands, but also to educate and motivate residents to implement similar BMPs on their leaseholds and right-of-ways, which would collectively contribute significantly to reducing the environmental impact of stormwater flow through the village.

1. Watershed J-- Projects J1 & J2**Arden Craft Shop Museum Pervious Parking Area and Bioretention Garden at Intersection of Millers Road, Walnut Lane, and Lower Lane.**

The stormwater flow through Watershed J connects to the overburdened Harvey Road system in Watershed C. Reducing the flow along Lower Lane from Millers Road and Walnut Lane will mitigate this burden. It will also lessen the impact on stormwater flow into neighboring Ardentown and across Harvey Road to Perkins Run.

Project J1: Craft Shop Museum Parking Area — Installing porous asphalt or other pervious pavement would reduce the stormwater flow and its transported pollutants. Additionally, it would serve as a demonstration for residents of the benefits inherent in the reduction of impervious surface area, a major contributor to village water quality impairments. In addition to the installation of pervious pavement, it may also be beneficial to lower and regrade the parking area to aid in processing the upstream flow from Millers Road. Preliminary Estimated Cost: \$40,000 (*Planning & Implementation*) **ARPA Request: \$20,000***

Project J2: Bioretention Garden — Installing a bioretention garden at the five-point intersection will serve to reduce flow and filter pollutants from water entering from Millers Road and Walnut Lane. The location of this feature will provide a prominent

example to residents and visitors of what can be implemented on leaseholds throughout the village. With leaseholder approval, this project may be extended into the leasehold at 2210 Lower Lane. An optional under-ground storage system located at the parking bump out could also aid in reducing pressure on the downstream Harvey Road area drainage network.

Preliminary Estimated Cost: \$76,000 (*Planning & Implementation*) **ARPA Request:**

\$38,000*

See accompanying Attachment 1 below for illustration and background information. --

Submitted by Arden Civic and Forest Committees

2. Watershed E -Projects E1 & E2, (possibly E3)

Pervious Paving of Mill Lane Between Harvey Road and Wind Lane, a Bioretention Garden at the Southeast Corner of Mill Road and Wind Lane, and a Bioretention Garden Between 2204 and 2212 Mill Road.

The stormwater flow through Watershed E begins to the west of the intersection of Mill Road and Wind Lane and flows along the leaseholds on Mill Road and Hillside Road. Capturing and managing the flow at the upper part of this watershed would mitigate the erosive impact to the woods and the undermining of the roadway and catch basins at the lower end. ForeSite Associates has proposed three Watershed E BMPs for our consideration. This ARPA funding proposal offers the choice to implement either two or all three BMPs.

Project E1 proposes converting the pavement of Mill Lane between Harvey Road and Wind Lane to pervious (porous) paving. Options include pervious asphalt, pavers, or concrete. Capturing stormwater flow at this high point in the watershed will help prevent downstream transport of sediment and pollutants.

Preliminary Estimated Cost: \$80,000 (*Planning & Implementation*) **ARPA Request:**

\$40,000*

Project E2 proposes installation of a bioretention garden at the southeast corner of Mill Road and Wind Lane, which is currently an area where stormwater flowing from areas along upper Wind Lane and Mill Lane leaseholds combines before rushing down Mill Road. This project also calls for installing a valley gutter or regrading the intersection to channel water into the bioretention garden.

Preliminary Estimated Cost: \$30,000 (*Planning & Implementation*) **ARPA Request:**

\$15,000*

Project E3 is an optional but highly effective BMP in this funding proposal. E3 consists of a bioretention garden located within the leaseholds between 2204 and 2212 Mill Road and will require leaseholder permission. An extension to the existing concrete gutter on the southeast side of Mill Road will funnel stormwater into the bioretention garden for flow reduction and infiltration. The Civic Committee will also consider funding an extension to Millers Road of the concrete gutter along the southeast side of Mill Road, as suggested in the SMP.

Preliminary Estimated Cost: \$210,000 (*Planning & Implementation*) **ARPA Request:**

\$105,000*

See accompanying Attachment 2 below for illustration and background information. --

Submitted by Arden Civic and Forest Committees

***Note** that these proposals are only requesting that **ARPA fund 50%** of the estimated planning and implementation costs. The Civic and Forest Committees are confident that we will obtain identified DNREC and other grant funding over a two-year planning and implementation grant application cycle. It is possible that \$75,000 of implementation funding can be secured through grants. In the unlikely event that further grant funding is

not secured, either the project can be scaled back to the ARPA funding level, or the funds will be returned for the village to redistribute before the 2024 ARPA deadline.

3. Joint Arden-Ardentown Stormwater Mitigation Project

Cooperative Test Project — Intersection of Walnut Lane and Green Lane (BMP I-2)

A large amount of stormwater flows through the intersection of Walnut Lane and Green Lane, primarily coming from Walnut and making a right turn onto Green Lane and then into Ardentown. Vehicle tracks indicate vehicles cutting corners and creating ruts with tracked sediment being observed on roadways. Sediment is a common water quality impairment in many areas through the villages and is just one of the many pollutants present on roadways that are transported to our streams via stormwater runoff. This water flows down Woodland into the Ardentown woods, and also along the north side of the Pettit Green. Consistent with the Arden Stormwater Master Plan, the two villages propose to reduce and filter the impurities from this water flow by putting in a rim of pervious paving along each of the four corners at the intersection. The plan recommends using a porous material to maximize infiltration. We also propose a bioswale strip adjacent to the permeable paving along the south corner where Walnut turns into Green Lane at the right side of Walnut (*see diagram*). If it proves to be a better solution, we may put in a bigger rain garden at the intersection. Since this will benefit both Arden and Ardentown, the two villages will share the cost of this work.

Preliminary Estimated Cost — \$12,000 total (**\$6,000 per village**)* --Submitted by Arden Civic and Forest Committees with Ardentown

B. BWVC Sewer Improvements

We respectfully request funding for the update or replacement of the sewer system at the Buzz Ware Village Center. The wastewater system of this vital community center has experienced frequent blockages, especially during periods of high use; and regrettably often during public events such as the Arden Fair. There have been repeated attempts to address these issues with frequent rodding and camera inspection processes. These have been labor and cost intensive but have not resulted in a resolution to the issue(s). The anticipated areas in need of remediation include all three of the bathrooms, the adjacent office area, the hallways and exterior of the building, potentially extending to the street sewer tie-in. We respectfully request consideration for monetary support of this request. We feel it is important for the Buzz Ware Village Center to be able to offer a safe and functional space for use by the community and other users. It is a charter of the Buzz to become a self-supporting, revenue generating facility for the village. We, as a committee, have been energetically working towards this goal. To continue to be an attractive venue for community events, event rentals and ongoing yearly rentals, this work needs to be completed so that we can confidently market a safe and fully functional venue. We anticipate an **approximate budget of \$40,000 - \$80,000** to make a complete replacement. This will serve the community in good stead for many years. -- Submitted by Arden BWVC Committee

C. Village-wide high-speed Wi-Fi for all households, community buildings and open spaces

In the last couple of years, wi-fi/internet access has been shown to be a necessary utility. We should create municipal high-speed wi-fi so that the Village is providing wi-fi to all households, community buildings and open spaces. This is a two-part infrastructure development and service agreement. I have communicated to Whyfly about doing both

the infrastructure and service for the Village. I have not gotten an estimate yet, but expect it to be **around \$50K** for equipment and service in year one. The service fee would then be taken on by the Village and paid through land rent. I would expect the service to cost on the order of \$150-200/year per household and maybe less. Compare this to \$480/year for the cheapest Verizon wi-fi plan. I am waiting on actual estimates from WhyFly, but other providers may be available. -- Submitted by Jeffrey Politis

D. Playground Climbers

Spending time outdoors is innate within people, and it improves both mental and physical health. Outdoor play is beneficial to all aspects of health, and has positive outcomes, including stress reduction and increased overall well-being. Playground equipment allows children and adults to gather, while still maintaining social distancing. The challenge of outdoor playground equipment encourages the physical growth of children, and this is an essential part of early childhood education and development. Playground equipment provides physical challenges for children, but it becomes a space where they will socialize with other neighborhood kids, which helps children learn local, emotional, cognitive, and communications skills. Usually, parents remain somewhere around equipment their children are playing on, so the gathering in a playground is an attraction for various social interactions of adults. The health and wellness of a community are impacted by the number recreation spaces within. Research says that active communities do better: obesity rates are 10% lower, people smoke less, 18% fewer residents have high blood pressure, and even graduation rates are higher. Playgrounds bring equity to our community, since having outdoor playgrounds and spaces allows people of various socio-economic to gather and their children to play and exercise without fees required. Play, playgrounds, and recreation areas remain crucial to both personal and community development, and we regularly need to improve them.

1. Large Playground Climber Replacement for the Sherwood Green

The Playground Committee is applying for ARPA funds to add a large climber, which would be installed on the Sherwood Green. The project **cost for purchase and installation would be \$35,500**, with the work done by a Certified and Insured Playground Equipment Installation Contractor. This climber would replace an existing climber on the Sherwood Green that is not safety compliant by current Playground Equipment Safety Standards. -- Submitted by Arden Playground Committee

2. New Playground Climber for 2–6-year-olds on the Arden Green

The Playground Committee is applying for ARPA funds to add a “safety compliant” climber on the Village Green, and this would be suitable for children ages 2-6, an age group for which there are not many playground structures to play on in Arden. The Committee would install a VERVE VI climber on the Village Green. The project **cost for purchase and installation would be \$10,500**, with the work done by a Certified and Insured Playground Equipment Installation Contractor. This climber would replace an existing climber on the Village Green that is not safety compliant by current Playground Equipment Safety Standards. -- Submitted by Arden Playground Committee

E. Arden Pool Repairs/Improvements

To use funds to shore up a community resource damaged by the pandemic, the Arden Pool. Currently they need to spend **\$30,000 or more** to redo the main deck concrete of the pool. They also would like to build a Pavillion inside the pool grounds for better

facilities for gathering. This I suspect is **at least \$10,000** but I have been unable to get an estimate. -- --Submitted by Ron Ozer & The Arden Club

F. Outdoor Pavilion Communal Space with Arden Club*

The Arden Club would like to build a pavilion in the Shady Grove to make the space more useful for community events. Since outdoor events are much preferred in times of pandemic, we would be wise to have a space in the Grove to shelter in the event of a storm, and to have a weather protected space for dining outside -perhaps additional outdoor seating for Arden dinners. Again, we do not have an estimate for this but I suspect it would cost **\$15,000 or more**. Arden Club has grant funds it could match the federal funds with. Pat Toman and I would both be contacts here. --Submitted by Ron Ozer & The Arden Club

G. Craft Shop Museum Website improvements to better access collection

The mission of the Arden Craft Shop Museum (www.ardencraftshopmuseum.com) is to collect and exhibit materials and artifacts related to the Ardens, which include the villages of Arden, Ardentown, and Ardencroft. The Arden Craft Shop Museum seeks to educate the community on the Ardens' history as single-tax communities in addition to how the roles of theater, craftsmanship, art, and other aspects of life have affected the development of the Ardens as a close-knit community. Until Covid-19, we educated the community, visitors, students, and historians in person at the museum through exhibits, special events, group tours, and summer programming for the children of the Ardens. Although we have a web site that offers limited access to our photo collection, creating web based educational content was never a priority, until now. Covid has taught us that the future of the Arden Craft Shop Museum will rely heavily on our ability to pivot from our standard operating procedure of in person education to a hybrid model that includes online exhibits, educational programming, virtual tours, and other interactive functions that allow our mission to be fulfilled. To accomplish this, we are requesting ARPA funds to upgrade our web site and support strategic initiatives to develop online access to our collection and history. Over the years, a major part of life in the Ardens has been the sense of community created by our shared activities, traditions and person to person contact. The pandemic has forced a change and, in many cases, eliminated these activities. The Arden Craft Shop Museum has worked to document the life of this community and as a collecting institution, we look forward to continuing in this role. Improvements to our web site and an increase in our online presence will continue to record and build the community we all treasure. We respectfully **request \$15,000**. --Submitted by Arden Craft Shop Museum

H. New ADA Woods Access to Sherwood Forest**

When the emergency orders from the State of Delaware called for the closure of playgrounds and basketball courts, the community largely pivoted to increased recreational use of our woodlands. None of these have access for people with mobility impairments, and they lack educational materials on site. I would like to use the grant money to install a short raised walkway with interpretative plaques to enhance the woods experience for our community, including our children, to be able to complement the educational outreach of our certification as a National Wildlife Habitat. This path would connect the openings to the woods that run from the end of the fire lane that enters the woods from Marsh and the end of Hillside Road on the Sherwood side. The merits of this area include that it is a relatively level run, not long, in the process of being remediated, and our closest access to public transportation, in the form of a bus stop on Marsh. Our

recreational use of the woods is an essential mental health service during this pandemic. -
 -Submitted by Brooke Bovard

I. Wage Compensation for Zoom session staffing**

The Safety Committee of the Village of Arden ran weekly Zoom gatherings during Covid lockdown to mitigate the isolation and mental health effects of the lockdown. Our community has a large percentage of gig workers and artists, who lost many of their opportunities for retail and performing income. In addition, an active cultural and community life was abruptly cancelled, and we had a concern for community members being isolated and unable to access necessary services, since we have no standing office. This ran for several months, at 3 hours a week, and invited elected officials, including Senator Chris Coons, to attend. All those hours were volunteer. I would like to request that we use some of our Covid money to, if in-person activities are again limited, compensate the person who staffs these meetings, at minimum wage. --Submitted by Arden Safety Committee

Costs Summary Chart

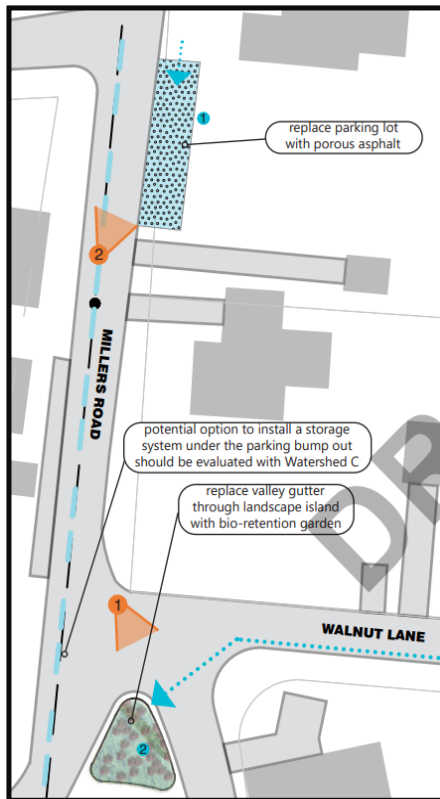
	<u>Proposal</u>	<u>Cost guess</u>
A.	Stormwater Mitigation Projects *	\$119K to \$224K
	1. Watershed Projects J1 & J2	\$58,000
	2. Watershed Projects E1, E2 & possibly E3	\$55K to \$160K
	3. Joint Project with Ardentown	\$6,000
B.	BWVC Sewer Improvements	\$40K to \$60K
C.	Village-wide high-speed Wi-Fi for all households, community buildings and open spaces	\$50,000
D.	Playground Climbers	\$46,000
	1. Replacement Climber for the Sherwood Green	\$35,500
	2. New Climber for 2-6-year-olds on the Arden Green	\$10,500
E.	Arden Pool Repairs/Improvements	\$30K to \$40K
F.	New Outdoor Pavilion Communal Space with Arden Club *	\$15,000+
G.	Craft Shop Museum Website for better access to our collection	\$15,000
H.	New ADA Woods Access in Sherwood Forest	**
I.	Wages for Zoom session staffing	**

* Matching or additional funds anticipated from grants or other sources.

**Cost estimates not included in proposal.

Attachment 1-- Stormwater Mitigation Project 1

BMP Projects J1 and J2



Craft Shop Museum Pervious Parking Area



Paving Options — Asphalt, Pavers, or Concrete
SMP Matrix Priority Score — 13 / 15 (15 = most favorable)
Preliminary Est. Cost — \$40,000 (Planning & Implementation)
ARPA Request — \$20,000

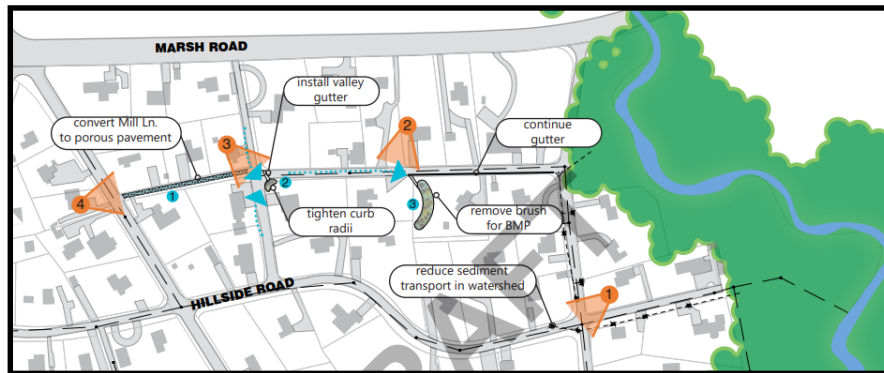
Bioretention Garden



SMP Matrix Priority Score — 12 / 15 (15 = most favorable)
Preliminary Est. Cost — \$76,000 (Planning & Implementation)
ARPA Request — \$38,000

Attachment 2-- Stormwater Mitigation Project 2

BMP Projects E1, E2, (and E3)



Wind Lane Pervious Paving



Paving Options — Asphalt, Pavers, or Concrete

SMP Matrix Priority Score — 12 / 15
(15 = most favorable)

Preliminary Estimated Cost — \$80,000

ARPA Request — \$40,000

Bioretention Garden
(Wind Ln. & Mill Rd.)

SMP Matrix Priority Score — 10 / 15
(15 = most favorable)

Preliminary Estimated Cost — \$30,000

ARPA Request — \$15,000

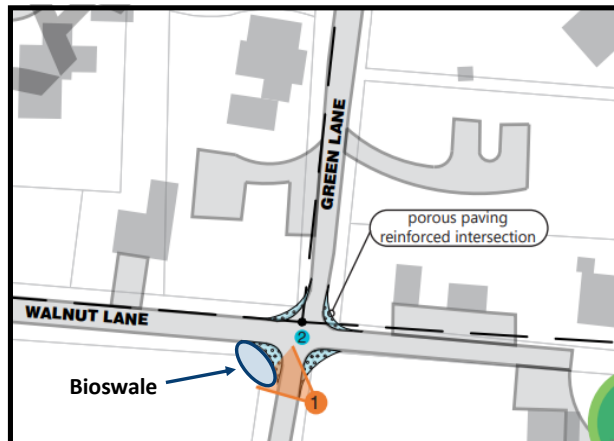
Option: The E3 BMP for Watershed E is the most effective but costliest of the Watershed E BMPs. It is included in this overall proposal, but can be omitted from the ARPA funding request if the Town Assembly does not choose to fund all three BMPs. Because of its importance in the Stormwater Master Plan for Watershed E, this would be implemented later, pending future DNREC or other grant funding. E3 consists of a **bioretention garden** located within the leaseholds between 2204 and 2212 Mill Road as the leaseholders permit. The Civic Committee will also consider extending the concrete gutter along the southeast side of Mill Road, as suggested in the SMP. (SMP Matrix Priority Score — 11 / 15)

Preliminary Estimated Cost — \$210,000 (Planning & Implementation)

ARPA Request — \$105,000

Attachment 3-- Stormwater Mitigation Project 3

Arden & Ardentown Joint Project: BMP Project I-2



SMP Matrix Priority Score — NA

This intersection was jointly agreed upon by Arden and Ardentown as a test project for the effectiveness of pervious paving along the curved intersection rims to reduce sediment and other pollutants and a bioswale to reduce and filter stormwater flow around the south corner.

Preliminary Estimated Cost — \$12,000

Project cost to be shared equally by Arden and Ardentown

Arden Share of Cost — \$6,000
